### PCT

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#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P033577WO			ent's file reference	FOR FURTHER ACTION  See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No. PCT/GB 03/01512				International filing date 04.04.2003	(day/month/yea		ate (day/month/year) 002	
International Patent Classification (IPC) or both national classific				ooth national classification	and IPC	t		
A61	K33/	14						
Appl	icant							
BTC	3 INT	ERN	ATIONAL LIMITED e	t al.			The second secon	
1.	<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>							
2.	This	REP	ORT consists of a total	of 6 sheets, including t	his cover she	ot.		
	×	bee	s report is also accompa n amended and are the Brule 70.16 and Sectio	basis for this report and	d/or sheets co	ntaining rectification	and/or drawings which have s made before this Authority	
	The	_	nexes consist of a total			•		
							•	
3.	This report contains indications relating to the following items:							
	I ⊠ Basis of the opinion							
	II Priority							
·	Ш	$\boxtimes$	Non-establishment of	opinion with regard to r	novelty, invent	ve step and industri	al applicability	
	IV		Lack of unity of Invent	tion			•	
	V 🖾 Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	VI		Certain documents cit	ed	-			
	VII   Certain defects in the International application							
	VIII		Certain observations	on the international app	lication			
Date	of sub	missic	on of the demand		Date of comm	etion of this report		
The state of the s			Date of comp					
03.11.2003			13.07.200					
Name	Name and malling address of the International				Authorized O	flcer	nas Polano.	
preiin	preliminary examining authority:  European Patent Office						September 1 and Sept.	
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d				56 enmu d	Economou	, D		
Fax: +49 89 2399 - 4465				oo opina a	Telephone N	o. +49 89 2399 <del>-</del> 8599	Parts Office on Colones &	
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I. Bas	sis of	the	report
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	tne and	receiving Office in red d are not annexed to	sponse to an invitation under Article 14 are referred to in this report as "originally filed this report since they do not contain amendments (Rules 70.16 and 70.17)):					
		****						
	De	Description, Pages						
	1-1	8	as originally filed					
	Cla	ims, Numbers						
	1-4	4	received on 01.04.2004 with letter of 29.03.2004					
	Dra	wings, Sheets						
	1/1		as originally filed					
2.	Wit lan	h regard to the <b>langu</b> guage in which the in	age, all the elements marked above were available or furnished to this Authority in the ternational application was filed, unless otherwise indicated under this item.					
	The	ese elements were av	ailable or furnished to this Authority in the following language: , which is:					
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).					
		□ the language of publication of the international application (under Rule 48.3(b)).						
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).					
3.	Wit inte	h regard to any <b>nucle</b> rnational preliminary	ectide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:					
$\square$ contained in the international application in written form.								
		I filed together with the international application in computer readable form.						
		furnished subsequer	ntly to this Authority in written form.					
		☐ furnished subsequently to this Authority in computer readable form.						
		The statement that t in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.					
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.					
4.	The	amendments have r	esulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					

1. With regard to the elements of the international application (Replacement sheets which have been furnished to

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5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).							
		(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)							
6.	Add	Additional observations, if necessary:							
HI.	Nor	n-establishment of opinion w	ith reg	gard to nove	elty, inventive step and industrial applicability				
<ol> <li>The questions whether the claimed invention appears to be novel, to involve an inventive step (to be no obvious), or to be industrially applicable have not been examined in respect of:</li> </ol>									
		the entire international applica	ation,						
	$\boxtimes$	claims Nos. 1-15,30-31							
because:									
		the said international application, or the said claims Nos. 1-15 and 30-31 with regard to IA (see separate sheet, item 1) relate to the following subject matter which does not require an international preliminary examination (specify):							
		see separate sheet							
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):							
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinicould be formed.							
		no international search report	has be	een establish	ed for the said claims Nos.				
2.	or a	meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/ r amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative estructions:							
		the written form has not been furnished or does not comply with the Standard.							
		the computer readable form has not been furnished or does not comply with the Standard.							
٧.		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; sitations and explanations supporting such statement							
۱.	Stat	ement							
Nov		elty (N)	Yes:	Claims	8,11,14-23,26-30,33-36,38-44 (see separate sheet, item 3)				
			No:	Claims	1-7,9-10,12-13,24-25,31-32,37 (see separate sheet, item 3)				
	Inventive step (IS)		Yes: No:	Claims Claims	1-44 (see separate sheet, item 3)				
	Industrial applicability (IA)			Yes: Claims 16-29, 32-44 (see separate sheet, item 1c); 1-(see separate sheet, items 1a and 1b)					

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2.	Citations and explanations		
	see separate sheet		

No: Claims

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- 1). a). Claims 1-15 and 30-31 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).
  - b). For the assessment of the present claims 1-15 and 30=31 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.
  - c). The subject-matter of claims 16-29 and 32-44 fulfils the requirements of industrial applicability.
- 2). The citation appearing in the International Search Report as WATANABE Y ET AL: "POTASSIUM AND HYPERTENSION" NUTRITION REVIEWS, ALLEN PRESS, LAWRENCE, KS, US, vol. 5, PART 1, no. 56, May 1998 (1998-05), pages 151-153, XP001084410 ISSN: 0029-6643, is incorrect.

  The correct citation should read SUTER P.M. "POTASSIUM AND HYPERTENSION" NUTRITION REVIEWS, USA, vol. 56, 5 pt. 1, pages 151-153.
- 3). SUTER P.M. "POTASSIUM AND HYPERTENSION" NUTRITION REVIEWS, USA, vol. 56, 5 pt. 1, pages 151-153 (=D1) discloses that the average potassium intake in the USA varies widely between 30 and 100 mol/day (see page 152, right-hand column, forth paragraph. Thus, already normal food intake would decrease blood pressure in a mammal. Hence, the subject-matter of claims 1-3,12,13,24,25,31,32,37 is not novel. Applicant's attention is drawn to the fact that instructions of use are not considered as technical features and therefore the subject-matter of claims 32 and 37 discloses nothing more than the food per se. The subject-matter of claims 6-8,11,28,29 and 33-35 and 38-44 does not involve an inventive step.

ALFONSO SIANI ET AL.: "Controlled trial of long term oral potassium supplements in patients with mild hypertension" BRITISH MEDICAL JOURNAL, vol. 294, 6 June 1987 (1987-06-06), pages 1453-1456, XP001088513 (=D2) discloses treatment of patients with 24 mmol/day (Lento-Kalium capsules (KCL);

# \* INTERNATIONAL PRELIMINARY International application No. PCT/GB 03/01512 EXAMINATION REPORT - SEPARATE SHEET

see page 1453, right-hand column, last four lines from the bottom) which led to a significant blood pressure reduction and concluded that moderate oral potassium supplements are associated with a long term reduction in blood pressure in patients who have mild hypertension (see abstract; last two paragraphs and page 1455, figure 3 and page 1455, right-hand column, first paragraph). Hence, in the light of **D2** the subject-matter of claims 1-7,9-10 and 12-13 is not novel.

The subject-matter of all remaining claims, although novel, does not involve an inventive step since substitution of KCl with another K-salt is known for the skilled person (see D3=WO 90 04403), foods as supplements for K\*substitution are known from D4(=WO 95 35038; see from p. 4, line 20 to page 5, line 2 and from page 8, line 4 to page 9, line 5 and claims), foods or drinks comprising K\*- ions are known from DATABASE WPI Section Ch, Week 199510 Derwent Publications Ltd., London, GB; Class B04, AN 1995-070227 XP002209847 & JP 06 345660 A (EARTH SEIYAKU KK), 20 December 1994 (=D5) and DATABASE WPI Section Ch, Week 199510 Derwent Publications Ltd., London, GB; Class B04, AN 1995-070230 XP002209848 & JP 06 345664 A (TOMITA T), 20 December 1994 (=D6) and combination of K\*-supplementation with a further anti-hypertension compound is known from US 4 855 289 (=D7). Hence, the skilled person by combining the teachings of D2 with the contents of any of D3-D7 would easily arrive to the subject-matter of the application.